

Frugalware 1.6rc2-90-gc5e408f (Fermus) Documentation

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1 Security support

1.1 Introduction

This document documents the work of the Frugalware Security Team. Primarily it's for new developers or for existing developers who join the Security Team.

1.2 Handling security bugs

1. The security team opens a new task in the BTS, with a [SEC] prefix.
2. The maintainer fixes the issue in -current and decides if the issue needs fixing in -stable or not. If yes, then changes the status of the task to "Fixed in -current", otherwise closes the task.
3. If there is no patch for the issue yet, then set the status to "Researching". This indicates that you, the maintainer, is aware of the problem, but don't yet have enough a solution.
4. The security team regularly searches for "Fixed in -current" bugs, fixes the issue in -stable and releases a new FSA.

1.3 How to release an FSA?

1. Check if the backport built by syncpkgd is ready (the binary packages should be uploaded for each arch).
2. Open the -stable Changelog file of the package. There you can see the vulnerable and unaffected versions of the package.
3. Add a new entry to the frugalware/xml/security.xml file in the homepage-ng repo.
4. Commit, push. The commit hook will check if the xml is valid, so most common errors can be avoided. In rare cases, the announcement may not appear on the frugalware-security list. If this is the case, then ask on -devel about what the problem might be.
5. Close the task in the BTS, filing in FSAxxx in the closure message.

1.4 How to notice security issues

1. Subscribe to Secunia Security Advisories List at http://secunia.com/secunia_security_advisories/ page. This is the best place to notice issues.
2. Read the mails one-by-one and check if the advisory affects -current or -stable.
3. Open a task in BTS if necessary. Please fill in the form correctly, provide a patch if you can.

You can also read other mailing lists, like <https://lists.grok.org.uk/mailman/listinfo/full-disclosure>, but Secunia monitors them, so you won't miss anything. (You just notice things later.)

1.5 How to get patches

Secunia announces security issues days after they released so there is a good chance to find a patch.

1. First of all sometimes upstream fixes it with a new version.
2. Fixed in cvs/svn/whatever and you are able to find the patch (unlike PHP)
3. If these two fail, there is <http://security.ubuntu.com/ubuntu/pool>. Secunia also mails you if the bug fixen in Ubuntu, so steal the patch from them :) You only need the \$package-\$pkgver.diff.gz. There is a changelog in it, where you can find the filename of the fix.
4. It's also a good idea to take a look on RedHat/Gentoo bugzilla. They attach fixes most the time.

So it's good to read the Secunia mails carefully as you'll always know when the patch is available.

1.6 Versioning

We use integers in pkgrels for normal packages, but -stable updates are different. Here are the cases:

- If you do a version bump (we refer to them as *secfix bump* usually in -stable commit messages), then you need to set pkgrel to 1<release_codename>1.
- If you add a security patch, and pkgrel was an integer (let's say *I*), then you should increment pkgrel to 2<release_codename>1.
- If you add a security patch when the pkgrel was already in an X<release_codename>Y form, increment it to X<release_codename>Y+1 (Alternatively, you can use X+1<release_codename>Y if there is already a newer version in -current.)

This ensures that:

- The version of the security update will be larger than the one in -stable, so that the package will be upgraded when the user does a `pacman-g2 -Syu` on -stable.
- The version of the security update will be smaller than the one in -current, so that the package will be upgraded when the user upgrades to a new version (current or new stable).

2 Handling git repositories

2.1 Introduction

This document is for developers who want to publish a git repository on the Frugalware FTP Server and on the Frugalware Gitweb Interface.

2.2 Name of the repository

The name of the official repositories are `frugalware-current`, `frugalware-stable` and so on.

The name of WIP repositories are typically in a `featureNUM` form, like `kde45` or `parted2`, referring to the name of the software it contains and its version. This method is used so that the repository name can be a valid shell variable as well.

Please note that there is a convention that WIP repository names never contain a hyphen (-). This is on purpose. It's not trivial to decide that when you merge code from one repository to another then build servers should try to build automatically the new packages you brought in or not. Because of this the policy is that if a hyphen is in the name, the it'll build the new packages (WIP → -current merge), but it won't do so when you merge the other way around.

2.3 Location of the repository

Since a repository consists of plain files, we can and should place them on the ftp server (/home/ftp). To prevent further problems, always use the server name "git.frugalware.org", currently it's an alias of genesis.frugalware.org.

First decide if it's a personal repository or a team one. For example if you create a repository to update to a newer python version, then you will probably do all the work, create it under /pub/other/people/nick/reponame. Simply create a dir, issue `git init` and push at least one commit to there (but before pushing, enable the hooks, see below).

Now anyone can `git clone` it, using a *full mirror*, for example `ftp://ftp12.frugalware.org/mirrors/ftp.frugalware.org`.

2.4 Registering for the gitweb interface

If the repository is a team one, then create it under /pub/other. In this case you probably want the gitweb interface, too. To use it:

1. Update the file `.git/description` inside the repo with a short (less than 80 chars) description.
2. Create the file `.git/owner` inside the repo containing your name, *without* your email address.
3. Push a *relative* symlink to the homepage-ng repository, see the existing ones as a reference.

After some time (a maximum of 30 minutes) it should appear at `http://git.frugalware.org/`.

2.5 Enabling hooks for your repository

Currently you need hooks for the following reasons: . If you don't use *bare* repositories, then the content outside `.git` won't be updated automatically, you need a hook to do so.

1. If you want CIA notification.
2. If you want to send mails to the Frugalware-git mailing list.
3. If you want to let others clone your repository via *dumb* protocols like `http` or `rsync`. (This means that if you disable this hook, it won't be accessible anonymously!)

For the last one:

```
mv .git/hooks/post-update{.sample,}
echo "unset GIT_DIR; cd ..; git checkout -f" > .git/hooks/post-receive
chmod +x .git/hooks/post-receive
```

For the others:

```
ln -sf /home/ftp/pub/other/git-hooks/git-hooks.py .git/hooks/post-receive
```

One thing that a hook won't do for you is to allow pushing to the master branch, even if it's the checked out one. This is normally not good, but our hook will handle this, so we can ignore the problem:

```
git config receive.denyCurrentBranch ignore
```

2.6 Setting up server configuration for a WIP repo

When you run `repoman`, it invokes `repoman server` on the remote machine using `ssh`. `repoman server`, just like plain `repoman`, reads configuration from `/etc/repoman.conf` and `$HOME/.repoman.conf`, so you need to set up the later before you can push packages to your WIP repo.

Here is a minimal example:

```
fst_root=/home/nick/git
repos=('current' 'mywiprepo')
```

And then you have to symlink the repos to `$HOME/git`, for example:

```
cd $HOME/git
ln -s /pub/frugalware/frugalware-current current
ln -s /pub/other/people/nick/nicktesting/ nicktesting
```

2.7 Enabling `syncpkgd` support for a WIP repo

If you create a new WIP repo, `syncpkgd` won't sync packages in it by default.

This means that if you just push your commits, no attempt will be made to build the relevant binary package automatically for you, which is the case for the `-current` / `-stable` repos.

If you want `syncpkgd` support, then you need to edit 3 configuration files on the server which runs `syncpkgd` (that's typically not your local machine and not the one that runs `syncpkgcd`).

Edit `syncpkgd`'s `repoman` config by extending the `repos` array and adding the `foo_servers`, `foo_sudo` and `foo_bases` variables:

```
vi ~/.syncpkgd/.repoman.conf
```

Add a `pacman-g2` configuration file:

```
vi ~/.syncpkgd/.pacman-g2/repos/foo
```

The contents will be something like this:

```
[foo]
Server = http://ftp.frugalware.org/pub/other/people/nick/foo/frugalware-@CARCH@
```

Note

Don't replace `@CARCH@` with anything else, `syncpkgcd` will do so later!

Finally edit the `git` hook and add `foo` to the end of the `repos` array:

```
vi /pub/other/git-hooks/synchook/config.py
```

If you no longer need these entries, you can remove them, but leave at least one there as an example.

3 This is a small tutorial for those who want to contribute to Frugalware

3.1 Ways of contributing

There are many different ways to contribute to Frugalware. You can write documentation, translate the existing documentation into your native language (or any other language you want to), maintain packages or improve them with added features etc.

If you are a programmer you can help us in developing our applications. These are: pacman-g2, gfpmp, fwlive, frugalwareutils, setup etc. See git.frugalware.org for different project repositories.

You can also start new projects. If you show some code we can surely host your project too if it's Frugalware related. For example you want to write kfpm :)



Important

After each title in brackets you can find the target audience.

3.1.1 Translations (translators)

You can read the details on our [Translations](#) documentation page.

3.1.2 Necessary documentation (packagers, coders)

In the first part I will cover the information necessary for those who do *not* have developer status yet.

In the second part we will set up the necessary config files.

First of all, we ask you to read the following documentation carefully. If you do not want to deal with packages, but just want to code it's usually enough to read the git documentation as we store our code in git repositories.

- man makepkg
- man pacman-g2
- man repoman
- man FrugalBuild
- man fwmakepkg
- [makepkg howto](#)
- [git getting started](#)

I know, it is boring reading documentation, but you have to know that writing it is even worse so do not ask questions when the answer in the documentation. If you can not understand something feel free to join [#frugalware@irc.freenode.net](https://irc.freenode.net) and ask.

3.1.3 Downloading and setting up the repositories

Getting the frugalware-current repo (packagers)

The frugalware-current repo is the development repo for the packages.

When you want to get it you need the git package. Let's get it:

```
# pacman-g2 -S git
```

Now create a git directory where you can hold all your repos. You can choose any other name of course.

```
$ mkdir -p ~/git
$ cd ~/git
```

Now clone the repo with git:

```
$ git clone http://frugalware.org/git/pub/frugalware/frugalware-current current
$ cd current
```

Now be patient while git clones all the objects and then checks out the files. Also you can use other mirrors as well.

Getting pacman-g2 and other code (coders)

First of all you need the repo of the program. In this example I will use pacman-g2, but the steps are very similar. NOTE: Most of our programs need the translations repo to compile)

```
$ mkdir -p ~/git
$ cd ~/git
$ git clone http://frugalware.org/git/pub/other/translations (optional)
$ git clone http://frugalware.org/git/pub/other/pacman-g2/pacman-g2
$ cd pacman-g2
```

Setting up the repository and sending patch via email (packagers, coders)

Now you should setup up your identity.

```
$ git config --global user.name "Your Name"
$ git config --global user.email email@addr.ess
$ git config branch.master.rebase true
```

Now you can make your changes. When finished run

```
$ git diff
```

in the repository.

Tip

You can also use *git diff .* (note the dot in the end). In that case git will show the changes recursively in the current directory. It is very handy when you have lot of uncommitted changes in your repo.

If you are satisfied with the changes run

```
$ git commit -a
```

to commit all your changes.

If you want to cherry-pick hunks from your changes:

```
$ dg record
```

or using native git commands:

```
$ git add -p; git commit
```

Without committing your changes you can not send nor push (just developers) it.

Tip

With frugalware-* repos it's recommended to use *repoman rec* which is a wrapper for *dg record*. It sets up the patch name properly so you only need to deal with the details.

Note

[Here](#) you can find more details on how to write good commit messages in general using git.

Here comes the final step. Send in the patch(es)!

```
$ git format-patch <hash>
$ git send-email --to frugalware-devel@frugalware.org .
```

<hash> is the sha1 of the last patch you do *not* want to submit. Run

```
$ git log
```

and you'll see the hash. Also, you can just use your existing mail client and send the patch(es) as an attachment.

If everything goes fine your patch should show up on the [frugalware-devel](#) mailing list soon.

Note

You have to subscribe to the [frugalware-devel](#) mailing list and set up your SMTP server properly (if you use `git send-email`).

It doesn't really belong to here but I want to document it somewhere. If you are a developer and want to apply such a patch, you need:

- Check the patch itself. If the second line is not an empty one, then you need to hand-edit the patch before applying:

```
Subject: [PATCH] powwow-1.2.13-1-i686
* new package
```

to:

```
Subject: [PATCH] powwow-1.2.13-1-i686
* new package
```

- Then you can apply the patch using `git-am`:

```
$ cat 0002-powwow-1.2.13-1-i686.patch | git am
```

You should do this in the root directory of the repository.

3.1.4 Further options for those who have developer account (packagers, coders)

Once you get a developer account, you have the right to request the following services:

- BTS access (so that we can assign tasks to you)
- git write access (you'll always get this, except if you are working on the artwork or so)
- a @frugalware.org mail address (with imaps/pop3s access)
- Public and private devspace. The first is in the `/pub/other/people/nick` dir and this is mirrored (you must not put private stuff to there). The later is your `~/public_html` dir: it is not mirrored and there is no backup for it. Though you may temporarily put private stuff to there.
- a @frugalware.org jabber account if you want one

What you should do:

- You should read the [frugalware-devel](#) mailing list. When you're asked, please try to respond.
-

- If you push patches to git, you should subscribe to the frugalware-git mailing list. This list has a big traffic since a new mail is sent for each patch. If you don't have time to read it, subscribe then set the "I would like to receive no mail" option. Also take care that your subscribing email address is the same one you set using `git config user.email`
- It's good if you can join the user and developer channel when you're online.
- Maintain your packages. Try to resolve your assigned bugs, try to keep your packages up to date, and if you needed patches for packages, send them upstream. If you don't have anything to do for a week that's usually a bad sign. It's - of course - OK when you go for vacation a few times a year, but then please announce it on the developer mailing list so that we won't wait for you when fixing urgent problems, etc.
- Document your work. The documentation is worth nothing if it's outdated. Ideally someone who has never contacted us should be able to understand every detail of Frugalware, just from documentation. No secrets! We are not kids.
- If you have time, try to read the mailing lists (`frugalware-users*`) and the forums. If you prefer reading the forums from your mail client, there is a bi-directional gateway on the `frugalware-forums@` list, use it.

Let us see what you should set up to get it work. I will also give some tips which can make your life easier.

Read [this page](#), we collected a set of tricks when we converted from darcs to git.

Setting up the frugalware-* repos and repoman (packagers)

It is time to set up some necessary things. We start with the frugalware-current repo. Make sure that you are in the root of the frugalware-current repo. Also do not forget to change the username to your login name on `git.frugalware.org`.

```
$ git config remote.origin.url 'username@git.frugalware.org:/home/ftp/pub/frugalware/ ↵  
    frugalware-current'  
$ git config remote.origin.receivepack "sudo -u repo git-receive-pack"
```

As you will use `repoman` to upload the packages (and many other things as you'll see) we should set it up now. This step is also necessary. Open `~/repoman.conf` with your favourite editor and add the following lines:

```
fst_root=~/.git  
current_servers=("username@git.frugalware.org:/home/ftp/pub/frugalware/frugalware-current")  
stable_servers=("username@git.frugalware.org:/home/ftp/pub/frugalware/frugalware-stable")  
stable_pushonly="y"
```

Where `fst_root` is the directory where you store your git repos. Username is your login on `git.frugalware.org`. For details see `man repoman`.

As from now use the following command from package's directory to push your changes.

```
$ repoman push
```

It will check the FrugalBuild using `fblint`, then record your changes, push them, upload the `fpms` and finally create the `changelog`, update the `fdb` etc. So you are done if there was no error message.

Setting up other repos (coders)

In repo's main directory:

```
$ git config remote.origin.url 'username@git.frugalware.org:/home/ftp/pub/other/pacman-g2/ ↵  
    pacman-g2'  
$ git config remote.origin.receivepack "sudo -u owner git-receive-pack"
```

Do not forget to change the username and repository path. For paths refer to the [gitweb](#) interface.

Note

The owner for `pacman-g2`, `frugalwareutils`, `pacman-tools` is usually `vmiklos`.

You should always review what you would push before you perform the action:

```
$ git fetch
$ git rebase origin/master
$ git log origin/master..master
```

Then you can use

```
$ git push
```

to send in your changes.

Note

The `dg push` wrapper does exactly this for you.

4 GNOME Bump HOWTO

You **MUST** follow this HOWTO when bumping GNOME to a new version (even a minor version).

To start, packages must be compiled in the order listed below (if you find a change that needs to be made to this list, poke Bouleetbil). If it is a major bump (2.14 to 2.16, for example), it is wise to rebuild most of the GNOME packages.

4.1 GNOME compile order

- libxml2
 - libxslt
 - gnome-common
 - intltool
 - rarian
 - gtk-doc
 - glib
 - libIDL
 - ORBit2
 - libbonobo
 - fontconfig
 - Render
 - Xrender
 - cairo
 - cairomm
 - Xft
 - pango
 - atk
 - shared-mime-info
-

- gtk*
 - gtk+2-engines
 - gtkmm
 - gconf
 - desktop-file-utils
 - gnome-mime-data
 - avahi
 - avahi-glib
 - dbus
 - hal
 - gamin
 - dbus-glib
 - libgnome-keyring
 - gnome-keyring
 - libproxy
 - libsoup
 - gvfs
 - gnome-vfs
 - audiofile
 - esd
 - libgnome
 - libart_lgpl
 - libglade
 - libgnomecanvas
 - libbonoboui
 - hicolor-icon-theme
 - icon-naming-utils
 - gnome-icon-theme
 - libgnomeui
 - startup-notification
 - gnome-themes
 - gnome-doc-utils
 - gnome-desktop
 - libwnck
 - libgpg-error
-

- libgcrypt
 - libtasn1
 - opencdk
 - gnutls
 - firefox
 - libgweather
 - evolution-data-server
 - pygobject (*)
 - pycairo
 - pygtk (*)
 - gnome-menus
 - librsvg
 - libcanberra-gtk
 - gnome-panel
 - zenity
 - metacity
 - gstreamer
 - liboil
 - libxklavier
 - libgnomekbd
 - libcroco
 - eel
 - gst-plugins-base
 - gnome-settings-daemon
 - nautilus
 - control-center
 - gnome-session
 - vte
 - gnome-terminal
 - libgtop
 - gucharmap
 - gnome-applets
 - libgsf
 - libgnomecups
 - libgnomeprint
-

- libgnomeprintui
 - yelp
 - bug-buddy
 - gtksourceview
 - pygtksourceview
 - pyorbit (*)
 - gnome-python (*)
 - iso-codes
 - totem-pl-parser
 - totem
 - brasero
 - gnome-media
 - eog
 - poppler
 - evince
 - gedit
 - gnome-python-desktop
 - alacarte
 - nautilus-cd-burner
 - gst-plugins-good
 - libmusicbrainz
 - gconf-editor
 - gnome-utils
 - gnome-system-monitor
 - gnome-netstatus
 - gcalctool
 - at-spi
 - libgail-gnome
 - gnome-speech
 - gnome-mag
 - gnopernicus (missing from repo)
 - gok (missing from repo)
 - epiphany
 - epiphany-extensions
 - gob2
-

- gnome-games
 - gnome-user-docs
 - file-roller
 - gnome-nettool
 - vino
 - vinagre
 - gnome-volume-manager
 - gnome-backgrounds
 - sound-juicer
 - gtkhtml
 - gal
 - pilot-link (if needed, not a gnome part)
 - gnome-pilot
 - gnome-pilot-conduits
 - gnome-spell
 - evolution
 - evolution-webcal
 - evolution-exchange
 - gdm
 - ptlib
 - opal
 - ekiga
 - dasher
 - gnome-power-manager
 - gnome-keyring-manager
 - deskbar-applet
 - fast-user-switch-applet
 - gnome-screensaver
 - pessulus
 - sabayon
 - gnome-cups-manager
 - system-tools-backends
 - liboobs
 - cheese
 - gnome-system-tools
-

- mousetweaks
- seahorse
- gnome-sharp
- gnome-desktop-sharp
- empathy
- hamster-applet
- nautilus-sendto

(*) - don't use Fsplit on this package.

Note

all *sharp and all bindings need to be split

4.2 Bumping individual packages

Never, I repeat, **NEVER** bump a version without doing the following:

1. Download the new version's tarball and extract it
2. Run `./configure --help` and look in `configure.in` to check for new dependencies (even optional ones) and consider whether to use them or not. Consult all devels about whether it is a good idea to use the optional dependencies.
3. Check for dependencies that are no longer needed and remove them from the FrugalBuild
4. Check GConf schemas. Sometimes they have been renamed, or new ones have been added. Not doing this can cause a lot of problems.
5. Check the Changelog and NEWS file for the package. Sometimes there may be API/ABI changes that need to be considered before bumping.
6. Check if `_F_gnome_{scrollkeeper,mime,desktop}` are needed in the new version.
7. When all this has been done, update the FrugalBuild with new sha1sums, pkgver, depends, GConf schemas and `_F_gnome_*` values (add `gnome-scriptlet` to `Finclude` if necessary)
8. Build the package and push.

5 Frugalware Release HOWTO

5.1 Introduction

The aim of this howto is to show what's the procedure of a stable Frugalware release. The to-be-created release in this howto is 0.5, the previous release is 0.4.

5.2 A testing release

A testing release is similar to a full one, but much simpler. Here are the steps:

- bump the `frugalware` package: update the `Makefile` in `frugalware.git`, upload a new release tarball, and update the package in `-current`
- rebuild the `setup` package, update the version of the `frugalware` package dependency to the new version
- wait for the nightly cronjob to publish `setup kernel+initrd` under `/pub/frugalware/frugalware-current/boot`
- now you can generate a `netinstall` iso using `mkiso` for a single architecture you can test and upload the image to `/pub/frugalware/`
- do a default install and make sure the machine boots up and you can log in using the graphical interface (if not, then fix it)
- run `dg tag <version>` for the new version and push it
- sync changes from `-current` to `-testing`:

```
$ rsync -avP --delete-after frugalware-current/ frugalware-testing/
```

- generate installer images for a single architecture using `mkisorelease`
- wait at least 24h so that mirrors will be in sync
- update `news.xml` and `roadmap.xml` to mark the release as done

5.3 Preparing

- send a mail to `-devel` about "please stop version and release bumps"
- check if the artwork has been updated completely. see [this](#) mail from Nadfoka on what items should be checked
- ask someone to update the screenshots
- sync the archs, `checkpkgs` shouldn't have any red pkg in it's output
- run `gensync` to rebuild the `fdbs`
- generate isos and test if everything is ok (ie. install from `cd1-cd2` on `i686`, and start `kde`, or something)
- check if the upgrade from `0.4`→`0.5` works or not, probably a simple `-Syu` is not enough, then write a `howto`
- tag the release using `git tag`

5.4 Creating the stable tree

Copy the full tree on `genesis`:

```
$ cd /home/ftp/pub/frugalware
$ cp -av frugalware-current frugalware-0.5
```

5.5 Updating the `-current` tree

Now one has two trees. All what one should do in `-current` is to regenerate `ChangeLog.txt` (copy & paste the command from `tools/genpkgdbs`).

5.6 Updating the -stable tree

- rename the frugalware-current fdfs to frugalware
- run tools/mkpkglst for each arch
- update VERSION in docs/Makefile, and rebuild the manual
- update `\.git/description`
- run genpkgs to regenerate the ChangeLog.txt to start from the 0.4 tag to the 0.5 tag
- update pacman-{g2,-tools} and fwsetup so that -stable will be the default on -Syu / repoman upd / in the installer, not -current
- upload the fdfs to the mysql db using fpm2db, just run all2db.sh from the /tools dir
- create a new chroot tarball for each arch

5.7 Testing

- generate isos, test *all* of them (net,cd,dvd for each arch)
- create an usb stick installer tarball for each arch
- create an tftp boot image for each arch
- create a gui installer image for each arch

5.8 Announcement

- put the isos online and wait at least 24h so that the mirrors will be in sync at release time
- create torrents for the isos and make sure at least one machine seeds them
- add the new version to the bts
- write an announcement, put it out to somewhere and ask Alex or LGee to spellcheck it
- push it to the homepage-ng repo
- mark the release as "done" in `/frugalware/xml/roadmap.xml` (homepage-ng repo) and add the proper newsid value
- update the topic of #frugalware
- update the freecode.com entry

5.9 For the next release

- find a codename
- update roadmap.xml

Done!

6 Artwork requirements

6.1 Introduction

This document details the requirements that must be met by all artwork if it is to be accepted into the official Frugalware gallery.

6.2 The rules

- All artwork must be licensed under the Free Art License 1.3 ([full details](#)).
- Where the Frugalware logo appears, only the officially approved logo may be used. Refer [here](#) for the logo.

Note

There is a newer SVG version available [here](#).

- Artwork must be submitted in either SVG or XCF (The Gimp) format as this allows for derivative works to be made without affecting the impact of the original artwork. Examples of derivative works include wallpapers in various sizes and height/width ratios, and/or KDM/GDM/SLiM themes. To suit the varying sizes and ratios of monitors, any wallpaper must be a minimum 1600 pixels wide and provided in both 4:3 and 16:9 ratios.
- All artwork must be submitted together with any associated source files - i.e. files which are required by the graphics editor used by the entrant to reproduce and/or edit the artwork.
- Only FLOSS software may be used to create the wallpaper.
- Neither the release's version number, nor code-name are to appear in artwork, or there should be a version without them for later use when a given release is no longer supported.

7 Table of user / group ids used in Frugalware

Table 1: Users and groups that are added with a specific uid/gid

| ID | User | Package | Group | Package |
|-----|----------|--------------|---------|---------|
| 000 | root | shadow | root | shadow |
| 001 | bin | shadow | bin | shadow |
| 002 | daemon | shadow | daemon | shadow |
| 003 | adm | shadow | sys | shadow |
| 004 | lp | shadow | adm | shadow |
| 005 | sync | shadow | tty | shadow |
| 006 | shutdown | shadow | disk | shadow |
| 007 | halt | shadow | lp | shadow |
| 008 | mail | shadow | mem | shadow |
| 009 | news | shadow | kmem | shadow |
| 010 | uucp | shadow | wheel | shadow |
| 011 | operator | shadow | floppy | shadow |
| 012 | syncpkgd | pacman-tools | mail | shadow |
| 013 | | | news | shadow |
| 014 | ftp | shadow | uucp | shadow |
| 015 | | | man | shadow |
| 016 | | | cdrom | shadow |
| 017 | | | scanner | shadow |
| 018 | privoxy | privoxy | privoxy | privoxy |
| 019 | fst | pacman | audio | shadow |
| 020 | nx | freenx | games | shadow |
| 021 | | | slocate | slocate |
| 022 | | | utmp | shadow |
| 023 | | | camera | shadow |
| 024 | | | video | shadow |
| 025 | smmsp | shadow | smmsp | shadow |
| 026 | clamav | clamav | clamav | clamav |

Table 1: (continued)

| ID | User | Package | Group | Package |
|-----------|-------------|-------------------------|----------------|-------------------------|
| 027 | mysql | shadow | mysql | shadow |
| 028 | rsyncd | rsync | rsyncd | rsync |
| 029 | _ntp | openntpd | _ntp | openntpd |
| 030 | | | storage | shadow |
| 031 | pgdb | postgresql | pgdb | postgresql |
| 032 | rpc | shadow | rpc | shadow |
| 033 | sshd | shadow | sshd | shadow |
| 034 | scponly | scponly | scponly | scponly |
| 035 | | | sbox | scratchbox |
| 036 | | | rlocate | rlocate |
| 037 | | | netdev | shadow |
| 038 | messagebus | dbus | messagebus | dbus |
| 039 | hald | hal | hald | hal |
| 040 | amavis | amavisd-new | amavis | amavisd-new |
| 041 | ejabberd | ejabberd | ejabberd | ejabberd |
| 042 | gdm | shadow | gdm | shadow |
| 043 | | | shadow | shadow |
| 044 | beagleindex | beagle | beagleindex | beagle |
| 045 | partimag | partimage | partimag | partimage |
| 046 | sabayon | sabayon | sabayon | sabayon |
| 047 | munin | munin and munin-node | munin | munin and munin-node |
| 048 | | | ccache | ccache |
| 049 | openldap | openldap | openldap | openldap |
| 050 | | | ftp | shadow |
| 051 | | | telnetd | shadow |
| 052 | | | tape | shadow |
| 053 | | | dialout | shadow |
| 054 | prosody | prosody | prosody | prosody |
| 055 | | | lock | systemd |
| 056 | gitosis | gitosis | gitosis | gitosis |
| 057 | | | | |
| 058 | | | | |
| 059 | | | | |
| 060 | | | grsec_procview | kernel-grsec |
| 061 | | | grsec_audit | kernel-grsec |
| 062 | | | grsec_tpe | kernel-grsec |
| 063 | | | grsec_s_all | kernel-grsec |
| 064 | | | grsec_s_client | kernel-grsec |
| 065 | | | grsec_s_server | kernel-grsec |
| 066 | mediatomb | mediatomb | mediatomb | mediatomb |
| 067 | polkituser | policykit | polkituser | policykit |
| 068 | usbmuxd | usbmuxd | usbmuxd | usbmuxd |
| 069 | couchdb | couchdb | couchdb | couchdb |
| 070 | | | | |
| 071 | | | | |
| 072 | | | | |
| 073 | postfix | postfix | postfix | postfix |
| 074 | | | | |
| 075 | | | postdrop | postfix |
| 076 | | | | |
| 077 | dspam | dspam | dspam | dspam |
| 078 | | | | |
| 079 | | | | |

Table 1: (continued)

| ID | User | Package | Group | Package |
|-----------|-------------|----------------|--------------|----------------|
| 080 | mailman | mailman | mailman | mailman |
| 081 | | | | |
| 082 | exim | exim | exim | exim |
| 083 | | | | |
| 084 | avahi | avahi | avahi | avahi |
| 085 | firebird | firebird | firebird | firebird |
| 086 | | | | |
| 087 | | | | |
| 088 | | | | |
| 089 | | | | |
| 090 | pop | shadow | pop | shadow |
| 091 | | | | |
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| 094 | | | | |
| 095 | | | | |
| 096 | | | | |
| 097 | | | | |
| 098 | | | nobody | shadow |
| 099 | nobody | shadow | nogroups | shadow |
| 100 | | | users | shadow |
| 101 | | shadow | console | shadow |
| 102 | | | | |
| 103 | | | | |
| 104 | distccd | distcc | distccd | distcc |
| 105 | | | | |
| 106 | | | | |
| 107 | | | | |
| 108 | | | | |
| 109 | postgrey | postgrey | | |
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| 111 | | | | |
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| 113 | logcheck | logcheck | logcheck | logcheck |
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Table 1: (continued)

| ID | User | Package | Group | Package |
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| 149 | | | | |
| 150 | quagga | quagga | quagga | quagga |
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Table 1: (continued)

| ID | User | Package | Group | Package |
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Table 1: (continued)

| ID | User | Package | Group | Package |
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Table 1: (continued)

| ID | User | Package | Group | Package |
|-----------|-------------|----------------|--------------|----------------|
| 296 | | | | |
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| 300 | | | jupiter | jupiter |
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Table 1: (continued)

| ID | User | Package | Group | Package |
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Table 1: (continued)

| ID | User | Package | Group | Package |
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Table 1: (continued)

| ID | User | Package | Group | Package |
|-----------|-------------|----------------|--------------|----------------|
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| 503 | bitlbee | bitlbee | bitlbee | bitlbee |
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Table 1: (continued)

| ID | User | Package | Group | Package |
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Table 1: (continued)

| ID | User | Package | Group | Package |
|-----------|-------------|----------------|--------------|----------------|
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Table 1: (continued)

| ID | User | Package | Group | Package |
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Table 1: (continued)

| ID | User | Package | Group | Package |
|-----------|-------------|----------------|--------------|----------------|
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Table 1: (continued)

| ID | User | Package | Group | Package |
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Table 1: (continued)

| ID | User | Package | Group | Package |
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Table 1: (continued)

| ID | User | Package | Group | Package |
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Table 1: (continued)

| ID | User | Package | Group | Package |
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Table 1: (continued)

| ID | User | Package | Group | Package |
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Table 1: (continued)

| ID | User | Package | Group | Package |
|-----|------|---------|-------|---------|
| 998 | | | | |
| 999 | | | | |

8 List of packages needs to be rebuilt after the given bumped

8.1 kernel

For current:

```
revdep-rebuild 276
```

If you want syncpkgd to do the job:

```
revdep-rebuild 276 --nobuild --nopush
```

Note

Please use this only on minor (ie. 2.6.22.1 → 2.6.22.2) bumps, on a major bump many packages need fixing manually.

For solaria:

```
revdep-rebuild 41222 -t stable --nobuild --nopush
```

8.2 mysql

Only in case sover increases, for example if you update to 5.5.10:

```
git grep 'depends.*libmysqlclient>=' |grep -v 5.5.10
```

8.3 libgda

(maybe need rebuild)

- gnumeric
- libgnomedb

8.4 db

(only on major bumps, ie. 4.2.x → 4.3.x)

```
$ git grep "'db>="
```

about 28 packages at the moment.

8.5 gnutls

- bitlbee (.so)
- claws-mail
- filezilla
- kildclient
- lftp
- libpurple (pidgin)
- libsoup (NOTE: first libsoup bump then all the other gnome | gtk* apps)
 - bug-buddy
 - evolution-data-server
 - rhythmbox
 - seahorse
 - swfdec
 - vino
- liferea
- msmtmp
- net6
- python-gnutls
- weechat
- wireshark (.so)

8.6 dbus

- hal
 - evince
 - gnome-utils
 - gnome-media
 - gnome-volume-manager
 - nautilus-cd-burner
 - ivman
 - k3b
 - pmount
 - kdebase
 - xfce4-terminal
 - liferea
 - bmpx
 - bluez-libs
-

8.7 dbus-mono

- banshee
- tomboy
- f-spot
- galago-sharp

8.8 neon

- subversion
- rpm
- openoffice.org
- gst-plugins-bad
- fusedav

8.9 binutils

- amule

8.10 libtasn1

- gnutls
- evolution (need to figure out which part depends on libtasn1 ...)
- lftp
- libsoup
- loudmouth

8.11 gstreamer

(only if is an upgrade for example, from 0.8 to 0.10, or 0.10 to 0.12, etc)

- amarok
 - banshee
 - rhythmbox
 - totem
 - gnome-applets
 - gnome-control-center
 - and probably a lot of gnome too
-

8.12 gtk+2

(only need for special version bumps. Example 2.8 → 2.10 we need bump these packs because /usr/lib/gtk+-2.0/1.X.X directory changed. BTW not at all bumps. Ex.: 2.6→2.8)

- gtk+2-engines
- librsvg
- libgnomeui
- gtk-xfce-engines
- kde-theme-qtcurve

8.13 libcdio

- sound-juicer

8.14 vte

- gnome-terminal
 - xfce4-terminal
 - gtk2-sharp
 - anjuta
 - tilda
 - grip
 - awn-extras-applets
 - guake
 - mlview
 - roxterm
 - ruby-gnome2
 - gnome-desktop-sharp
 - cairo-dock-plugins
 - geany
 - sakura
 - sjterm
 - termit
 - nemiver
 - lxterminal
-

8.15 firefox

To rebuild packages for a new version, bump the up2date in source/include/firefox-118n.sh, then:

```
cd source/locale-extra/  
for i in $(ls -d firefox-*|egrep -v 'spell|dict')  
do  
    cd $i  
    bumppkg && repoman rec "- version bump"  
    cd - >/dev/null  
done
```

8.16 xulrunner

- galeon
- epiphany
- devhelp
- yelp

8.17 wireless_tools

- kdenetwork

8.18 parted

To rebuild packages for parted-1.8.8:

```
revdep-rebuild 429 --other --sed "s|'parted[^\']*'|'parted>=1.8.8'|"
```

8.19 libpqxx

- kpogre
- asterisk-addons
- asterisk
- koffice

8.20 openobex

- kdebluetooth

8.21 bluez-libs

- bluez-utils
- kdebluetooth
- libbtctl
- gnome-bluetooth
- bluez-pin

8.22 gail

(.so version bump)

- eel
- gtkhtml

8.23 imagemagick

- dvdauthor

8.24 evolution-data-server

- ekiga
- evolution

8.25 x264

- mplayer
- avidemux

8.26 ocaml

- facile

8.27 openbox

- obconf

8.28 pilot-link

- gnome-pilot
- gnome-pilot-conduits
- libmal
- kdepim
- evolution
- sylpheed-claws

8.29 php

- eaccelerator
-

8.30 libevent

(on sover change)

- tor
- nfs-utils
- trickle

8.31 exiv2

- gwenview
- libkexiv2
- digikam
- kipi-plugins
- kphotoalbum

8.32 icu4c

- boost
- libtorrent-rasterbar
- texlive
- tin
- webkit

8.33 c-ares

- aria2
- php
- bzflag
- xine-ui
- sword

8.34 libofx

- homebank

8.35 directfb

- gst-plugins-bad
 - splashy
-

8.36 sword

- bibletime

8.37 gpm

- fpc
- joe
- vim
- pycrypto
- jed
- xemacs
- fte
- links
- elinks
- aumix
- aalib

9 Creating translations for init scripts

Marcus Habermehl <bmh1980de@yahoo.de>

9.1 Preparing the source

To make a script translatable you must first add these two lines to the rc script.

```
TEXTDOMAIN=my_service
TEXTDOMAINDIR=/lib/initscripts/messages
```

To mark a string as translatable in bash you must prefix the string with \$.

```
echo "$This is a translatable string."
```

9.2 Creating the pot file

After this you must create the pot file.

```
$ bash --dump-po-strings rc.my_service | xgettext -L PO -o rc.my_service.pot -
```

9.3 Creating a po file

In the next step you create the po file.

```
$ msginit -l hu_HU
```

Now you can edit the po file with any editor.

9.4 Creating the mo files

To create and install the mo files, you must add the po files to the source() array and use the `Frcd2` macro in `build()`.

10 Frugalware AsciiDoc quickstart

Since 0.6 Frugalware, all documentation is written in AsciiDoc which means we have to write `README.Frugalware` files in AsciiDoc syntax. Here are some basic AsciiDoc features and some things you should and should not do a `README.Frugalware`.

10.1 Features

You can use `*bold*`, `_italic_` and also ``monospaced`` fonts.

You can also `“quote”` if you want to do so.

When you want to add something to the

```
-----  
# root command line  
$ user command line  
> keyboard input  
-----
```

that's no problem at all.

Maybe you want bulleted items:

```
.Items  
* item 1  
* item 2  
* here is number 3
```

And you can also create lists:

```
1. First  
+  
It's indented, belongs to first.  
+  
And this paragraph is also indented.  
  
2. Second  
+  
This is inside the second point.  
+  
2.1. Foo  
+  
2.2. Bar  
+  
a. Baz  
  
3. Third  
  
End of list.
```

Some extras:

```
NOTE: You can also place notes.
```

```
TIP: It's a tip
```

WARNING: Warning.

IMPORTANT: This is important

CAUTION: Cave canem!

10.2 Restrictions

You **must not** underline titles with = or -. You might use ~, and ^ for subchapters. If you want one line titles place 3 or 4 = before the title and a space.

10.3 Skeleton for README.Frugalwares

Your titles should look similar to this:

```
=== First chapter
-----
# pacman-g2 -Syu
-----

=== Second one

`\_F_foobar`

==== This is a subchapter...

...and its contents.
```

or

```
First chapter
~~~~~

-----

# pacman-g2 -Syu
-----

Second one
~~~~~

`\_F_foobar`

This is a subchapter...
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

...and its contents.
```

10.4 Skeleton for standalone documentation

You might ask then: okay, but how do I start? Here is a really simple example:

```
= Title
Author Name <foo@frugalware.org>

== First chapter
```

```
-----  
pacman-g2 -Syu  
-----  
  
== Second one  
  
'\_F_foobar'
```

And you can generate the HTML using

```
asciidoc -a toc -a numbered skel.txt
```

The documentation should be placed under the `/docs` dir in the FST. Please add a link to it in `index.txt` and in `index-user.txt` or `index-devel.txt` depending on the type of the documentation.

10.5 Buiding it on your own machine

Install the tools necessary to build the documentation (if you haven't already done so):

```
# pacman-g2 -S make asciidoc po4a
```

Get the necessary source code and translations:

```
$ mkdir ~/git  
$ cd ~/git  
$ git clone http://frugalware.org/git/pub/frugalware/frugalware-current current  
$ git clone http://frugalware.org/git/pub/other/translations  
$ cd current/docs
```

Generate additional documentation and update the po files from the translations repository:

```
$ make packages.txt user.txt po
```

Generate the localized documentation source from the po files:

```
$ po4a -k 0 po4a.cfg
```

Generate HTML from the source:

```
$ cd hu  
$ asciidoc -a toc -a numbered -a sectids network.txt
```

Now you can look at the result of your translation in a web browser.

If you have already done this, and you updated the translation, you need to:

```
$ cd ~/git/translations  
$ git pull --rebase  
$ cd ~/git/current/docs  
$ rm -rf po  
$ make po  
$ po4a -k 0 po4a.cfg  
$ cd hu  
$ asciidoc -a toc -a numbered -a sectids network.txt
```

and now you should be able to see your updated translation in the updated HTML.

10.6 Adding a new project to Pootle

Well, this happens rarely, and so is not well documented, but here is what is needed:

- `autogen.sh` should support importing po files from the `translations` repository and should have a `--pot-only` switch. `gnetconfig` is a good example.
- The pot file should be updated daily. Add the project's `autogen.sh` to `-current's /tools/genpkgdbs`.
- Run the above command manually once.
- Add the pot file to `pootle-update` in the `pacman-tools` repository.
- Run `pootle-update` manually once.
- Log in to Pootle with administrator rights and create a new project.
- Add the necessary new languages on the web interface.
- Translate a few strings for one language and commit.
- Pull the translations repository locally and verify that you get the expected results.

11 Frequently Asked Developer Questions

11.1 What is the recommended way to version bump a package if I don't have git push access?

- a. Update the FrugalBuild.
- b. Optional: update the patches/docs/etc.
- c. Compile the package.
- d. Upload the new `.fpm` to incoming.
- e. `repoman rec`, `git format-patch` and `git send-email` the fixes. (Don't forget to set your git identity!)

11.2 `makepkg` ends up with `<packagename>: /usr/info/dir: exists in filesystem`

Instead of

```
make DESTDIR=$startdir/pkg install
```

you should write

```
Fmakeinstall
```

in your FrugalBuild.

11.3 I can't `pacman-g2 -Su <package>`, it says local version is newer, but I know it isn't!

This is a bug in the package's version numbering, so please report this in the Bug Tracker System. Since `pacman-g2` checks the version numbers (installed vs. repo version), the new package's version must be bigger than the old one to upgrade flawlessly.

11.4 What does 5.55 SBU mean?

It took 5.55 times longer for the maintainer to compile this package than `binutils`. So if you want to know how long it will take to compile a package with 5.55 SBU, you should first compile `binutils` (`makepkg` helps you, as it writes how many seconds elapsed). Then you should multiply it by 5.55 to know how many seconds it will take to compile the package.

11.5 Why do maintainers cry about my new package's tarball?

Let's have a look at the filelist of eaccelerator's tarball:

```
$ tar -tf eaccelerator-0.9.3-1.tar.bz2
eaccelerator/
eaccelerator/eaccelerator-0.9.3.zip
eaccelerator/FrugalBuild
eaccelerator/README.Frugalware
eaccelerator/eaccelerator-0.9.3-1-i686.fpm
```

You have to name the tarball as `<pkgname>-<pkgver>-<pkgrel>.tar.bz2` (or `gz`), which should only contain a `<pkgname>` directory at first level, and all the files needed to create the fpm in it. It is the easiest way for the maintainers to work with your tarball when adding your package to the repo.

11.6 What should and shouldn't I include in `depends()`, `rodepends()` and `makedepends()`?

You should include only what `chkdep -p` recommends, and avoid trivial `makedepends`, including:

- `auto*`
- `make`
- `gcc`
- `kernel-headers`
- `libtool`
- `glibc`

Don't forget: every `depends` is a `makedepends` as well!

The `rodepends()` array should only contain packages really needed for running the given application.

11.7 What are the various dependency-control arrays for?

- `depends` should contain any packages that this one depends on at compile and run time as well.
- `makedepends` is for packages that this one needs to compile.
- `rodepends` is for run time only dependencies; eg. a wordlist package (with no executables) needs a program which can handle it as a dictionary.
- `provides` is an alternate name for the package. Main use is for more packages which do the same; eg. `hunspell-en` and `hunspell-de` both provide `hunspell-dict`, and `hunspell` depends on `hunspell-dict` instead of any specific language. (Sometimes those packages are conflicting, like `postfix` provides *and* conflicts with `mta`, and `exim` too - this way there can be only one MTA on the system, without the need to know other MTAs' name.)

Be careful with dependency-cycles: while `pacman-g2` can handle them, `makepkg` can not.

11.8 How can I have PHP to work with my newly packaged eaccelerator/anything extension?

Since package A should not tamper with package B's config files, you should write a `README.Frugalware`, describing how to enable/use the extension, include it in `source()` and `Fdoc README.Frugalware`.

11.9 How can I cross-compile (package) an architecture-independent (non-binary) program?

You should modify `carch` and `chost` in `/etc/makepkg.conf` and build the package again.

11.10 repoman upd can't create /var/fst/ as it already exists

Su - to root and

```
cd /var/fst && mv * frugalware-current
```

11.11 How can I access the central FW repo (mirrors are too slow for me)?

```
git clone http://git.frugalware.org/repos/frugalware-current
```

This creates a new local repo for you, which is a copy of the central repo. To update it, run

```
git pull --rebase
```

in it. That's all to have a read-only copy; if you want to git send-email patches, then you should read the [Git docs](#) to set up your name, email, etc.

11.12 What should I write as patch name and long comment at repoman rec?

Patch name should be the same as the fpm (but without `.fpm`, of course); and long comment should only contain what you have done to create that patch (eg. "added i686 to archs(")).

11.13 Where should I place my comments about a package?

You mean `README.Frugalware`. It should be in `source()` and then at the end of the `build()` you should use:

```
Fdoc README.Frugalware
```

It is automatically included if you use empty `build()` or `Fbuild`.

11.14 I want to work with the latest development version of pacman&co.! How?

```
$ git clone http://git.frugalware.org/repos/pacman-tools
$ cd pacman-tools
$ make dist
```

You will have a brand new `.tar.gz`. Give it to `pacman-tools`' `FrugalBuild`, correct the checksum, create a new `pacman-tools` package (`makepkg -fuch` helps) and install it. That's all (and if you don't understand this, read it again, and if it's still not clear, then wait for `pacman-tools`' normal upgrade since you don't need this really)...

11.15 Naming locale packages

What is the order of a new package's locales? How should I name them?

Have a look at `hunspell` There is a `hunspell` package, which depends on `hunspell-dict`. There is no package named `hunspell-dict`, but it is provided by the locale packages. The most important ones are `-en` (`==en_US`), `-hu` (`==hu_HU`), `-de` (`==de_DE`), `-fr` (`==fr_FR`), `-it` (`==it_IT`), `-es` (`==es_ES`) and `-sk` (`==sk_SK`). Here are others: `-en_US`, `-de_CH`, `-es_MX`.

The `-xx` packages will be installed by the non-CD based (ie. `netinst`, DVD) installers.

11.16 Error handling

You are responsible for checking if a command used in `build()` fails. The best is to use the `F*` macros where possible since they handle the errors for you. If you need custom commands, it's recommended to append `|| return 1` to every line, so that `build()` will stop if an error occurs.

11.17 Permissions

If text files (header files, documentation) are executable, feel free to fix their permission. A bigger problem is the permission of the shared libraries. They must be executable, please fix their permission if necessary. As always, it's recommended to create a patch to fix the problem and send it to the upstream project.

11.18 Stripping

Stripping binaries is unnecessary and pointless. Unless you use `options=(\nostrip\)` in the `FrugalBuild`, it's done by `makepkg` automatically.

11.19 When should I use `$Fsrcdir` and `$Fdestdir`

Most `F*` macros will prepend/append those variables for you, but if you use custom commands, then you always have to use them.

11.20 When should I increment a package's release number?

- If your change affects only the `FrugalBuild` (like an `up2date` fix) then you should not, just push your change.
- If your change affects the `fdb` or the `fpm` (change in `build()`, `depends()` fix, etc) you should do so.

11.21 How do I repair a corrupted package database?

Restore a backup from the `/pub/other/fdb-snapshot` directory, and check its version (the `.version` file in the tarball).

Then run:

```
$ for i in `git log --pretty=oneline 94a41e0..|sed 's/^[^ ]* \([^ ]*\).*\/\1/'\`  
|sed 's/-[^-]*-[^-]*-[^-]*$//'\`; do ls ../source/*/${i} &>/dev/null \  
|| continue; updatesync upd frugalware-current.fdb \  
../source/*/${i}/FrugalBuild; done
```

12 Frugalware Source Tree Testsuite

12.1 Introduction

The testsuite is a set of several simple unit tests. Most of the tests were written when a typo was found, so that we hope next time it'll be detected automatically. When a problem was found, a test was created and the test failed. After the problem was fixed the test passed. The statistics section contains special tests: we are aware that they do not pass, but their actual output is interesting for us. The output of the testsuite is sent to the `frugalware-devel@` mailing list daily.

Since the tests in the testsuite section should pass, if one fails it is expected to be fixed within a day, especially if your name is listed next to a line.

You can find the tests under the `/t` directory of `FST`, the statistics are under `/t/s`.

12.2 Rules

Basically there are 3 simple rules for these tests:

- If the first argument is `--help`, they should print a short (less than 80 chars) description. This will be displayed if the test fails as sometimes the name of the test may not be descriptive enough.
- The tests are called in a `./testname` form, without any argument. This allows you to use various interpreted programming languages (python, bash, etc.).
- If the test *passes*, there should be no output. This means that there may be a `-v` or `--verbose` option to generate output even if the test passes, that's not a problem. If the test *fails* there must be some output. For example if there are problematic packages, then it's recommended to list each package in a separate line with their path under FST.

12.3 Technical details

Given that all the files in the fdb and fpm files are owned by root, if you want to operate on them, then you need to use fakeroot. The testsuite wrapper won't do this for you. A common practice is to write a generic python script that operates on the fdb, then create a shell wrapper for each arch, which will call the python script via fakeroot.

13 Translations

13.1 Introduction

Localization is important for every user who doesn't speak English fluently. If your native language is not English, then you can help us by translating a few sentences to your native language. If you would like to help, the following steps are necessary:

- Visit the [web interface](#) and register.
- Select your language (ie. if you would like to contribute French translation, select French). If your language is not listed, then ask for addition on our developer mailing list.
- Select what projects you would like to translate. It's good to start with some smaller project like the homepage or the setup. If the given project has no `.po` file for your language, contact us.
- Now you can begin translating, but your changes won't hit the master repo, you need additional permissions to commit from the sandbox. Ask us for commit access.

A few tips if you're new to pootle:

- By default you can edit the whole translation, but usually you would like to see only the untranslated and fuzzy strings. You can search for them by clicking on "Show editing functions" then selecting "Quick translate".
- You can commit a po file by clicking on "Show editing functions" then selecting "Commit".
- You can search for fuzzy translations by clicking on "Show editing functions", selecting "Show checks" and then the "isfuzzy" check.

13.2 Rules

There are not many, at the moment.

- Please don't translate the `== NAME` and `== SYNOPSIS` strings in the manpages, docbook does it already and asciidoc fails to create the manpage if it's already translated.
 - The first translator for a language (this can be changed if requested) receives all rights for a given project, except: Suggest, Overwrite, Assign, Administrate.
-

13.3 Goals

When we created the current mechanism of handling translations, we had the following goals:

- When we modify source code or documentation, the translators should be able to begin the necessary (if any) translations without any manual action.
- It would be nice to overview the localization status of a language.
- It should be easy to maintain the translation (ie. doing a manual sync for big documents is rather problematic).
- Translators are not developers, write access to the translations should not require any other access right.
- It should be possible for anyone to translate, but only given users should be able to push changes.

13.4 Overview

Now let's see how all this is possible. We'll take our `asciidoc` documentation as an example.

First, we need to extract the translatable strings from the sources. This is an important step since this way a document is split into paragraphs and you can then later translate even a single paragraph rather than choosing between translating a 10-page-length document entirely or not. We use `po4a` for this purpose. It creates a template, named `docs.pot`, which is transferred daily to the translation server.

(For source codes we usually use the `intltool-update` utility to extract translatable strings.)

Right after the transfer, the `po` localization files are updated using `msgmerge` from the `gettext` package: this way the translators do not have to re-translate the strings which are already done.

On that machine, we use a web interface for the translation. This has several advantages:

- The translators can register and begin their work without any confirmation from our developer team.
- Those accounts are - of course - not real unix accounts but just virtual ones.
- We can give commit access for users by specifying their project and language. So everybody can make translations but only users we know can push the changes.
- Collaboration for people who do not know what a patch or a version control system is now should not be a big problem. This is important since for example the whole documentation is one big file per language.

Once a user with enough privileges pushes the translation to our `git` version control system, we can use it. The documentation is built daily and we pull the new translations from the dedicated repo before each build.

The output of the English build is available [here](#). If it contains any error or warning, the testsuite will let us know by including them in the daily testsuite mail, sent to the developer mailing list. The log of the localization builds is available [here](#).

There we use `po4a` again to reconstruct the original (now in some language other than English) document from the translated strings.

For source code we pull the translations right before creating a release tarball so. This has the following benefits:

- We ship the latest translations
- Once the tarball is ready, users who would like to compile the source code should not fetch the translations manually.

The proof of concept for this mechanism is our French documentation which is more than 80 pages length and includes zero percent of manual editing by the developers (while till now we had to push the submitted - by email and other undocumented channels - translated documents manually, hoping that the newer version is better than the old was).

14 How to port Frugalware to a new architecture

14.1 Introduction

This document is a draft about how to port Frugalware to a new architecture.

14.2 Toolchain

- Install any existing distro to the given architecture. No matter what kind of it, but make sure you install the normal development tools like header files, gcc, make, etc.
- Compile from source (based on the FrugalBuilds) our development tools like pacman-g2, pacman-tools (+ deps: libarchive, etc if they are not available.)
- Build a minimal toolchain: binutils, gcc, glibc (in this order) outside chroot, with dep checking disabled (makepkg -dHcu).
- Build packages which are necessary to build in chroot: see the COREPKGS variable in /etc/makepkg.conf (same makepkg switches).

Given that repoman won't allow you to upload which are not built in chroot, here is a simple script to upload and register then till you don't have a chroot:

```
#!/bin/sh
scp *.fpm genesis:git/current/frugalware-ppc
pkgname=$(pwd|sed 's|.*|'|')
ssh genesis "cd git/current/frugalware-ppc; arch=ppc updatesync upd frugalware-current.fdb <-
  ../source/*/${pkgname}/FrugalBuild"
```

Replace genesis with the server name and git/current with an other path if you don't have such a symlink in your HOME.

Now you can start building in chroot and uploading real packages.

Note

Yes, this means that you have to build the toolchain twice. Also known as *bootstrapping*.

14.3 Base system

You should start porting with packages from the *base* category, once you are done with it, you should be able to install (manually) a bootable system, after manually configuring a boot manager.

14.4 The rest

That depends on your needs, you can port additional packages as well.

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